

POSITION DUTY STATEMENT

PM-0924 (REV 3/2006)

CLASSIFICATION TITLE Transportation Engineering Technician	DISTRICT/DIVISION/OFFICE North Region Construction	
WORKING TITLE Construction Materials Tester/Inspector	POSITION 927-502-3175-	EFFECTIVE. DATE

As a valued member of the Caltrans team, you make it possible for the Department to improve the mobility across California by being innovative and flexible; reporting to work as scheduled; working cooperatively with team members and others; and treating others fairly, honestly and with respect. Your efforts are important to each member of the team, as well as those we serve.

GENERAL STATEMENT:

Under the direction of an Area Construction Engineer, a Senior Transportation Engineer or a Transportation Engineer acting in a lead capacity, the incumbent will make construction inspections and field investigations of materials used in construction projects. Extensive travel is required, should possess a valid driver's license.

TYPICAL DUTIES:

Percentage Job Description
Essential (E)/Marginal (M)¹

- 40% (E) Will make field investigations and laboratory analysis of materials being used in construction projects; will make controlled tests and checks performance of construction materials, soils, aggregates, cement, asphalt, concrete, and other construction materials. Will analyze and approve, or assist in analyzing and approving materials, incorporated in nonstandard major structures; evaluate or assist in evaluating damage, for all types of transportation facilities. Will perform tests on construction materials to determine their compliance with the Standard Specifications applicable to the year the job is bid.
- 25% (E) Will perform compliance inspections of Asphalt Concrete (AC) Plants and Portland Cement Concrete (PCC) plants during construction projects insuring compliance with plans and specifications of construction projects. Adjust, maintain, and calibrate materials testing equipment used to determine compliance with Specifications during construction projects.
- 25% (E) Will make inspections of construction projects. Ensure compliance with plans and specifications, collects engineering data. Assist in drafting and prepare specifications, change orders, contract estimates, and other documents and reports involved in the construction of projects. Advise Resident Engineer of problems or situations on project sites.
- 10% (E) Will perform miscellaneous inspection duties and nonprofessional engineering work as assigned, on various construction projects.

¹ ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned
MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others

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PM-0924 (REV 3/2006)

SUPERVISION EXERCISED OVER OTHERS:

Incumbent does not supervise.

Receives supervision from a Senior Transportation Engineer or direction from a Transportation Engineer, Civil, acting in a lead worker capacity.

KNOWLEDGE, ABILITIES AND ANALYTICAL REQUIREMENTS:

Incumbent must be familiar with construction materials specifications, PCC and AC plants and must be proficient in California test methods. Methods of proportioning and handling Portland Cement Concrete and Asphalt Concrete, handling of asphaltic oils and emulsions, testing of materials, computer application to transportation engineering; factors which influence the impact of highways and other transportation facilities on the environment; principles and practices involved in utility relocation.

Read and write English, at a level required for successful job performance; communicate effectively orally and in writing. Make accurate engineering calculations; understand very basic design engineering principles; ability to research and compile data and prepare calculations for a variety of routine transportation improvement projects.

CONSEQUENCE OF ERROR/RESPONSIBILITY FOR DECISIONS:

Incumbent is responsible for determining the acceptability of materials in relation to the Specifications; errors may lead to inaccurate tests, with subsequent structural failure of roadbeds or contractor's claims due to errors in testing, which leads to rejection of satisfactory materials and work. Incumbent will be responsible to make accurate engineering calculations of a routine nature; apply sound engineering principles to various routine engineering activities; take effective action to avoid delays. Misinformation or incomplete information could result in incorrect or late payments to the Contractor.

PUBLIC AND INTERNAL CONTACTS:

Must be able to establish and maintain friendly and cooperative relations with those contacted in the course of the work. Such as: fellow Caltrans workers, contractors' employees, engineering consultants, to transmit or obtain relevant engineering information. These contacts could be verbal or written, as needed, to perform assignments.

PHYSICAL, MENTAL AND EMOTIONAL REQUIREMENTS:

Employee may be required to stand for large periods of time, walk on slopes or uneven terrain, move and transport bags of material samples to Materials Labs. May occasionally be required to move equipment and testing materials weighing up to 50 lbs. Night work, frequent travel and long-term assignments throughout the North Region may be required. Will take and test material samples and do other non- professional engineering work as assigned.

When at their base office setting, employee may be required to sit for long periods of time using a keyboard and video display terminal and would be required to work in a climate-controlled office with artificial lighting, etc. In the course of the employee's work, must maintain a cooperative working relationship within the working environment, with peers, subordinates, contractors and their employees.

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WORK ENVIRONMENT:

Will be subject to noise, odors, dust, extreme weather conditions, climate-controlled environment, and artificial lighting, etc. Must work with and about a variety of materials, construction and testing equipment.

I have read, and understand the duties listed above. If you believe you may require accommodation, please discuss this with your hiring supervisor.

EMPLOYEE (Print)	DATE
EMPLOYEE (Signature)	DATE

I have discussed with and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)	DATE
SUPERVISOR (Signature)	DATE